CIA-RDP86-00513R00041231

L 33999-65

ACCESSION NR: AP5006079

at atmospheric pressure gave primarily liquid hydrocarbons, as did synthesis on thorium-activated catalysts, while synthesis at 10 atm. gave, after a development period of 3-8 days, 100-110 g/m³ of solid paraffin waxes which contained 20-30% liquid and 70-75% solid hydrocarbons; 15-20% of the solid fraction had melting points of 106-116C. Liquid and solid reaction products were fractionated and the physical and chemical characteristics of individual fractions are given. Orig. art. has: 5 cables, 1 figure and 1 formula.

ASSOCIATION: Institut organicheskoy khimii im. N. D. Zelinskogo, AN SSSR (Organic chemistry institute, AN SSSR); Tsentral naya laboratoriya Redkinskogo opytnogo zavoda (Central laboratory, Redkinsk experimental plant); Komiteta khimichieskoy promyshlennosti pri Gosplane SSSR (Chemical industry committee, State planning commission, SSSR)

SUEMITTED: 28Jan64

ENCL: 00

SUB CODE: OC

NO REF SOV: 012

OTHER: 009

Card 2/2

EYDUS, Ya.T.; NEFEDOV, B.K.

Initiation of hydropolymerization reaction of olefins during their hydrogenation in the presence of a cobalt catalyst at 200°. Izv. AN SSSR. Ser. khim. no.5:888-893 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

YERSHOV, N.I.; EYDUS, Ya.T.; YEROKHINA, V.R.; ANDREYEV, N.S.

Oxygen-initiated heterogeneous catalytic reaction of condensation of olefins in the presence of hydrogen. Part 5: Conversion of isobutylene. Kin. i kat. 6 no.2:300-305 Mr-Ap '65. (MIRA 18:7)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

EYDUS, Ya.T.; NEFEDOV, B.K.; BESPROZVANNYY, M.A.; PAVLOV, Yu.V.

Catalytic hydrocondensation of carbon monoxide with olefins and their hydropolymerization under the effect of carbon monoxide and hydrogen. Report No.392 Activity of rhodium-based catalysts. Izv. AN SSSR. Ser. khim, no.7:1160-1169 '65. (MIRA 18:7)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

NEFEDOV, B.K.; FYDUS, Ya.T.

Development of the catalytic syntheses of organic compounds from carbon monoxide and hydrogen. Usp.khim. 34. no.4:630-652 Ap '65. (MRA 18:8)

1. Institut organicheskoy khimii imeni N.D.Zelinskogo AN SSSR.

CIA-RDP86-00513R00041231

Eyerc. Ya.11; EAAL, T.A.

Conthesis of onters and other derivatives of index conditions of aris entally in from carries of criteria, and acylating concents, but 14,500.

the course of carbons thexylation of butylens, alcohol. Thur. ob. khiz. 35 no.1:125-125 da ...

1. institut organisheskoy khizij inoni b.i. indi

CIA-RDP86-00513R00041231

Initiated hoterogoneous-catalytic reactions. Dckl. AN SSSR 162 no.3: 610-612 My 165.

1. Institut organicheskey khimii im. N.D.Zelinskogo AN SSSR. Submitted November 11, 1964.

CIA-RDP86-00513R00041231

SOURCE CODE: UR/0020/66/167/003/0583/0586 AUTHOR: Yershov, N. I.; Eydus, Ya. T.; Guseva, I. V. 3 ORG: Institute of Organic Chemistry im. N. D. Zelinskiy, Academy of Sciences, SSSR (Institut organicheskoy khimii Akademii nauk SSSR) TITLE: The initiating effect of carbon monoxide during hydropolymerization of ethylene in the presence of hydrogen SOURCE: AN SSSR. Doklady, v. 167, no. 3, 1966, 583-585 TOPIC TAGS: polymerization initiator, carbon monoxide, ethylene, reaction mechanism ABSTRACT: The report describes conditions for the hydropolymerization of ethylene at 190C, during which the hydrogen reduction of carbon monoxide is almost completely absent and the monoxide is not detectable in the end products of the process. Preliminary exposure of the reduced Co catalyst to the monoxide, or to a gas containing it, at 100C represents one method of obtaining such conditions. The ratio of ethylene to hydrogen is especially significant in the process and can serve to control the catalyst's ability to reduce CO. In such cases the monoxide functions as the initiating agent through any of the four described reaction variants. 66.097.13 UDC: Card 1/2

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EYDUS, Isfim Samoylovich; TAL'VIK, P.I., red.; HULEVA, M.S., tekhn.red.

[Manufacture of medical instruments and parts of apparatus]

priborov. Gos.izd-vo med.lit-ry, Leningr.otd-nie, 1958. 319 p. (MIRA 12:4)

(NEDICAL INSTRUMENTS AND APPARATUS)

Tekhnologiia proizvodstva meditsinskikh instrumentov i detalei

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

SMILAUER, Adolf, inz. dr.; EYEMOVA, Jirina, inz.

Contribution to the optimalization of operational planning. Podn org 19 no.4:159-163 Ap '65.

1. Research Institute of Mechanical Engineering and Economics, Prague.

EYEMOVA, Jirina, inz.; HOLY, Rudolf, inz.

Continuour operational planning of serial production. Podn org 19 no.5:213-215 My '65.

1. Research Institute of Mechanical Engineering and Economics, Prague.

"相应"。如此"红江南南阳南南南南南

GROZOVSKIY, T.S.; DONSKOY, D.I.; KAGAN, D.Kh.; ISAYEV, F.P., inzhener, redaktor; EYFEL', A.I., inzhener, redaktor katalogov i plakatov; MATVEYEVA, IG.M., tekhnicheskiy redaktor; MODEL', B.I., tekhnicheskiy redaktor.

[Repairable and spare parts for the ZIS-150 automobile; albom of design] Remontiruence i dopolnitel'no-remontnye detali avtomobilia ZIS-150; al'bom cherteshei. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1951. 137 p.

(Automobiles--Apparatus and supplies)

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

EYFER, I.Z.; BERNER, Ye.I.

Electrophysical properties of viscose fibers. Khim. volok. no.4:45-49 163. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

EYFER, I.Z.; BERNER, Ye.I.

Thermophysical properties of the fibers of hydrated cellulose. Khim. volok. no.4:44-46 '64. (MIRA 18:4)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo velokna.

EYFER, I.Z.; FAYNBERG, E.Z.; MIKHAYLOV, N.V.

Effect of the orientation of molecular chains on the dielectric anisotropy of fibers. Khim. volok. no.2:48-50 '65. (MIRA 18:6)

l. Vsesoyuznyy nauchno-issledovateliskiy institut iskusstvennogo volokna.

LIPINSKIY, S.P.; SAKHAROV, I.P.; EYFER, I.Z.

Formation of viscose fiber with a variable rate for winding into large packages. Khim. volok. no.3:32-34 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volckna.

EWI(1)/EPA(s)-2/EWI(m)/EPF(o)/EWP(j)/EEC(t)/T Pc-4/Pr-4/Pt-10/ L 40910-65 P1-4 IJP(c) GG/RM 5/0190/65/007/003/0411/0416 ACCESSION NR: AP5008364 65 AUTHORS: Mikhaylov, N. V.; Faynberg, E. Z.; Eyfer, I. Z. 60 TITLE: A method of determining orientation of polymer materials by the dielectric constant SOURCE: Vysokomolekulyarnyye soyedineniya, v. 7, no. 3, 1965, 411-416 TOPIC TAGS: dielectric constant, polymer, orientation, anisotropy, polypropylene, polytetrafluoroethylene, polyethylene terephthalate ABSTRACT: The authors have developed a method for determining the orientation of molecular chains in polymeric material, such as fibers, by measuring the dielectric constant. This technique assumes that the material is electrically enisotropic. This anisotropy may be represented by the index $n = E_{RE}/E_{PP}$, where E_{RR} is the dielectric constant in the axial direction, Err in the radial direction. Direct measurements of E with satisfactory precision may be made, but accurate determinations of E as are difficult. It is possible, however, to do this indirectly by taking two readings at different angles and by solving rather simple Card 1/2

L 40310-65

ACCESSION NR: AP5008364

5

equations. The authors describe a device designed to permit measurement at different angles relative to the fiber axis. The advantage of this technique, as contrasted with the optical method, is that measurements may be made at wavelengths where the phase state and morphology of the fibers have no appreciable effect on the anisotropy. The authors examined stretched and unstretched fibers of different chemical composition: polyethylane terephthalate polypropylene, polytetrafluoroethylane and mitron. The results proved that the technique is suitable for determining orientation. Reproducibility proved to be high. Actual measured and computed values are given in a table in the article. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna (All-Union Scientific Research Institute of Synthetic Fibers)

SUBMITTED: 29Apr 64

ENCL: 00

SUB CODE: HT, EK

NO REF SOV: OOA

OTHER: 003

Card 2/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

SAKHAROV, I.P.; EYFER, I.Z.; EFRNER, Ye.I.

High-intensity drying of rayon fiber packages in fields of high-frequency currents. Khim. volok. no.4:44-48 '65.

(MIRA 18.8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna.

EWT(m)/T/EWP(t)/ETI IJP(c) JD/WB L 43050-66 SOURCE CODE: UR/0137/65/000/011/1071/1071 ACC NR: AR6014386 (N,A)AUTHORS: Zheleznyakova, Sh. R.; Zakatova, N. A.; Eyfer, M. Yu.; Shar, N. F. TITLE: The behavior of high-temperature and scale-resistant steels and alloys in etaan endothermic atmosphere with different carbon potentials SOURCE: Ref. sh. Metallurgiya, Abs. 111501 REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 224-235 TOPIC TAGS: steel, alloy steel Kh25N2OS2 steel, Kh25 steel Lest resistant stad, and thermic effect, gra convergen, metal exidation, commune metal exidation and alloys were ABSTRACT: Fourteen types of Cr-, Cr-Ni-, and Fe-Cr-Al steels and alloys were investigated. The endothermic atmosphere had a carbon potential 0.3-0.4% C and 0.8-0.9% C. The experimental temperature was 1050C, the duration of experiments was 100, 300, 500, 700, and 1000 hours. The furnace pressure was 10--15 mm H20. The flow rate was 350 liter/hr. The overall depth of gaseous corrosion was determined in terms of the sum of the surface and intercrystalline corrosion. The oxidation curves are compared with the exidation in air; the carbon potential of the latter is assumed to be 0% C. All steels and alloys investigated were subject to surface oxidation; many carbonized, and steel Kh25N2OS2 showed intercrystalline corrosion. Scale resistance of the investigated materials in an atmosphere of carbon potential 0.3--0.4 % C for short exposure is better and for long exposures worse than in an atmosphere of endogas with a carbon potential of 0.8-0.9 % C. For all exposures UDC: 669.15.018.85:620.193 Card 1/2

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"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

Die steel. Biul. T.HCHI no.5:48 '61. (MRR 14:10)

(Steel)

S/129/62/000/006/006/008 E111/E435

AUTHORS: Rustem, S.L., Candidate of Technical Sciences,

Eyfir, Ye.M., Engineer, Braslavskiy, D.I., Engineer

TITLE: Stamping steels for hot stamping of parts from heat-

resisting alloys

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, no.6, 1962, 44-48

TEXT: The steels studied were type 4X362M2Φ (ЭΠ1)
4Kh3V2M2F (EP1)], 4X3B8M (ЭΠ2) [4Kh3V8M (EP2)],
4X656C (ЭΠ3) [4Kh6V6S (EP3)]. Laboratory work included the
determination of optimum heat treatment conditions. Mechanical
properties were studied at room temperature and at 500, 600 and
650°C. Types Э1437B (EI437B) and ∋W617 (EI 617) were stamped at
1150 to 950°C on a mechanical forging press. The durability of
the test steels was compared with that of type 5XHB (5KhNV) and
3X268 (3Kh2V8) steels. Type EP1 and EP2 are recommended and were
found to be more economical than 5KhNV and 3Kh2V8. Heating to
400-500°C is needed before use. The heat treatment recommended
is air or oil quenching from 1125 ± 15°C; first tempering from
Card 1/2

S/129/62/000/006/006/008 E111/E435

Stamping steels for hot ...

625-650°C - 6 hours; second from 610-635°C - 4 hours. Doctor of Technical Sciences, Professor A.P.Gulyayev directed this work. There are 5 tables.

ASSOCIATION: Moskovskiy vecherniy mashinostroitel'nyy institut (Moscow Evening Machinery Institute)

. Card 2/2

CIA-RDP86-00513R00041231

EYG, L. S.

USSR/Nuclear Physics - Cosmic Rays

21 Dec 49

"Experiments With the Wilson Gloud Chamber at 3,860 Meters," R. V. Sadovskiy, P. A. Cherenkov, I. V. Chuvilo, L. S. Eyg, Phys Inst imeni Lebedev, Acad Sci USSR

"Dok Ak Nauk SSSR" Vol LXIX, No 6, pp 789-792

Conclusions: Multicharged particles observed by authors in subject expt must be products of nuclear fissions occurring in middle layers of the atmosphere. Submitted 3 Nov 49 by D. V. Skobel'tsyn.

PA 173T91

Elinas.

120-6-11/36

ATTHORS:

Eyg, L.S., and Chaykovskiy, V.G.

TITLE:

On the Working Life of Argon-CH2(OCH3)2 Filled Counters of Radioactive Radiation (O sroke sluzh'y schetchikov

radioaktivnogo izlucheniya s argon-metilalevym napol-

neniyem)

FERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.6, pp. 49 - 54 (USSR).

The working characteristics of self-quenching counters deteriorate with age. A number of workers (Refs. 1 and 2) have ALL_TRACT: noted that these changes are: increase in the threshold voltage, increase in the plateau slope, etc. Such changes are usually observed after 107 to 10 pulses and determine the working life of a counter. High-voltage self-quenching GM-counters are usually filled with an inert gas such as argon plus a small proportion of some organic vapour such as ethyl alcohol, isopentane and others. At the moment of recording of an ionising particle, dissociation of the organic molecules takes place. As a result of the irreversible breakdown (in the discharge) of the organic molecules the working characteristics of the counter change. According to the existing ideas in each discharge 109 to 1010 organic molecules are broken down. In

120-6-11/36

On the Working Life of Argon-CH₂(OCH₃)₂ Filled Counters of Radioactive Radiation.

counters of normal dimensions there are 10²⁰ molecules of the quenching material and therefore all these molecules ought to dissociate after 10¹⁰ counts. However, normal working of the counter is disturbed much earlier. In the present paper the authors give results of a mass-spectrometric analysis of the gas mixture during the working of the counter. The counters which were used for this experiment were of the usual co-axial form. The tungsten anode was 0.1 mm in diameter and had a working length of 80 mm. The cathode was in the form of a layer of copper deposited on the inner wall of the glass envelope. This system is shown in Fig.1. Counters were filled with 15% (by pressure) chemically pure CH₂(OCH₃)₂ and the

pressure was brought up to 100 mm Hg by the addition of argon. Two groups of counters were used. The first group consisted of 60 counters and was used to study changes in the chemical composition of the filling and the characteristics of the counter as functions of the number of counts. The second group, consisting of 70 counters, was used for both the above purposes

Card 2/4

120-6-11/36

Othe Working Life of Argon-CH2(OCH3)2 Filled Counters of Radioactive Radiation.

and the study of changes in the amplitude and the count rate as functions of the number of recorded counts. Results of these measurements are summarised in Figs. 2, 3, 4, 5 and 6. Fig.2 shows the change in the characteristics of counters as a function of the number of recorded counts. It can be seen that the threshold voltage increases by 50 to 60 volts, the length of plateau decreases by about 260 V and the plateau slope increases from 2 - 3 to 18 - 20% after 2 x 10 counts. Mass spectrometric analysis has led to the conclusion that the amount of dissociating organic molecules is proportional to the number of recorded counts. In the gas mixture of the counter, substances with mass numbers 16 and 28 appear, and these worsen There are reasons to suppose that the counter characteristics. the mass number 16 corresponds to oxygen which has a strong influence on counter characteristics. The ageing of the counter is connected not only with the dissociation of the organic component but also with changes in the surface of the cathode. The present experiments have shown that, with the right exploit-ation of argon-CH₂(OCH₃)₂ filled counters, they can be used for Card3/4 recording up to (1 to 2) x 10⁸ counts.

120-6-11/36

On the Working Life of Argon-CH₂(OCH₃)₂ Filled Counters of Radioactive Radiation.

S.A. Vekshinskiy and M.I. Men'shikov collaborated in this work. There are 6 figures, 2 tables and 6 references, 2 of which are Slavic.

SUBMITTED: May 3, 1957.

AVAILABLE: Library of Congress

Card 4/4

E 92, 1. 5.

AUTHOR: Eyg, L.S.

120-1-12/36

TITLE: Dia

Discharge Delay in Low-voltage Halogen Counters (Zaderzhka razvitiya razryada v nizkovol'tnykh galogennykh schetchikakh)

PERIODICAL: Pribory i Tekhnika Eksperimenta, 1957, No.6, pp. 54 - 57 (USSR).

ABSTRACT: It is usually considered that the formation of negative ions is responsible for discharge delay and the appearance of an appreciable number of spurious counts which tend to increase the plateau slope. The primary electron appearing within the volume of the counter may "stick" to an electronegative atom thus forming a negative ion. The mobility of such an ion is smaller by two or three orders than the mobility of an electron. For this reason the ion will take a much longer time to reach the filament. Near the filament, the negative ion dissociates and a free electron appears again and initiates a discharge. The duration of the delay was measured by two methods. In the first method a triple telescope was used consisting of two highvoltage counters and a low-voltage counter between them. The delay time in the high voltage counters was estimated to be 0.1 µsec and hence one can assume that, compared with lowvoltage counters, high-voltage counters have negligible delay. Cardl/3 The high-voltage counters were connected to a coincidence

Discharge Delay in Low-voltage Halogen Counters.

120-1-12/36

circuit and the output from this circuit was used to produce the horizontal deflection of a CRO. The pulse from the low-voltage counter was used to produce the vertical deflection of the CRO. In this way, the delay could be determined visually. method is not very accurate and introduces subjective errors. The second method is more accurate and is based on the measurement of double coincidences with change in the resolving time of the coincidence scheme (Ref.4). The circuitry is shown in Fig. 2. The pulses from a high voltage counter were fed into one of the channels of the coincidence scheme, and the pulse from the low-voltage counter was fed into the second channel. pulse length in the high-voltage channel could be varied between 2 and 22 µsec. At a given voltage, the number of coincidences was measured as a function of the pulse length in the highvoltage channel. This dependence is shown in Fig. 3. pulse length in the high-voltage channel is increased the number of coincidences also increases. At the pulse length comparable with the delay time of the low-voltage counter, the slope of the curve suddenly changes (Fig. 3). It is clear from Fig. 3 that in counters having cathodes 18 mm in diameter, the Card2/3 delay is greater than in counters with cathodes 10 mm in diameter.

120-6-12/36

Discharge Delay in Low-voltage Halogen Counters.

This is explained by the fact that in the bigger counter the negative ion has to cover a larger distance between the moment of its formation and the moment when it loses the electron. At a nominal voltage of 400 V, low-voltage counters can be used in coincidence schemes having resolving times not less than 7 to $10~\mu sec$. These experiments have shown that in the range 360-500~V, the delay time in the low-voltage counters is as follows:

Cathode Diameter

Discharge Delay

18 mm

12 to 4 µsec

10 mm

9 to 2 µsec.

There are 4 figures and 4 references, 3 of which are Slavic.

SUP LITTED: May 18, 1957.

AVAILABLE: Library of Congress.

Card 3/3

EYG, L.S.

SOV/120-58-5-13/32

AUTHORS: BRISH, A.A., Dmitriyev, A.B., Kosmarskiy, L.M., Sachkov, Yu.N., Sbitnev, Ye.A., Kheyfets, A.B., Tsitsiashvili, S.S., and Eyg, L.S.

TITLE: A Vacuum Spark Switch (Vakuumnyye iskrovyye rele)

PERIODICAL: Pribory i tekhnika eksperimenta, 1958, Nr 5, pp 53-58 (USSR)

ABSTRACT: The device consists of an evacuated glass envelope which contains 3 electrodes (see the general diagram of Fig.1). The principal discharge gap comprises a complex cathode consisting of two electrodes which form an auxiliary discharge gap. The two cathode electrodes are separated by means of a fine mica plate; when a triggering pulse is applied, a discharge is formed on the surface of the mica. Fig.2 shows 6 alternative solutions of the electrode systems of vacuum spark switches. Fig.3 shows photographs of actual switches (tubes 4,5,6 and 7) and photographs of 3 thyratrons (tubes 1, 2 and 3) for the purpose of comparison. The basic parameter of a switch is its anode voltage Va, its operating current I and its triggering breakdown voltage V . The anode operating voltages up to 20 kV could be obtained with a discharge gap of 1 mm. The values of the

Card 1/3

SOV/120-58-5-13/32

A Vacuum Spark Switch

discharge current are determined primarily by the external parameters of the circuit in which the switch is employed. The currents can be very high since the tube is "extinguished" at a current of about 20 A. The energy required for the initiation of the main-gap breakdown is very small. Thus the switch can be triggered by the energy stored in a capacitance of about 5 , but the triggering voltage should be at least 1500 V. The switch is subject to some time delays. The overall delay is $T = t_1 + t_2 + t_3$, where t_1 is the time between the commencement of the triggering pulse and the inception of the trigger gap discharge; t_2 is the time lag between the commencement of the auxiliary discharge and the inception of the main-gap discharge, and t_3 is the formative time of the main gap discharge. These time delays are illustrated graphically in Fig.4. In actual tubes the formative times of the main discharge were of the order of 0.03 us. The electrical characteristics of a spark

Card 2/3

"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231

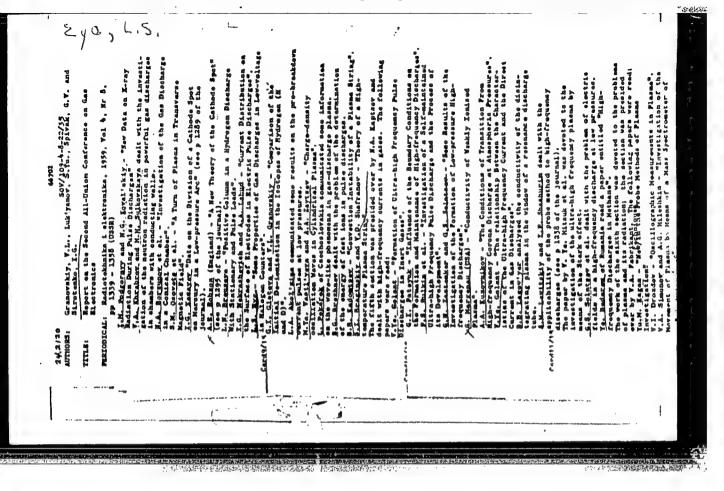
sov/120-58-5-13/32

A Vacuum Spark Switch

switch are affected by the number of switchings performed. This is illustrated in Fig. 11, which shows the ignition voltage of the auxiliary gap as a function of the number of switchings N : It is seen that the voltage decreases with N . The paper contains 11 figures and no references.

SUBMITTED: November 15, 1957

Card 3/3



9.4100

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\$/120/60/000/01/024/051

AUTHORS:

Lobov, S.I., Tsukerman, V.A. and Lyg. 1382s.

TITLE:

A Controlled Low-pressure Discharge Tube

PERIODICAL:

Pribory i tekhnika eksperimenta, 1960, Nr 1,

pp 89 - 92 (USSR)

ABSTRACT:

The tube described is a triode in which the main gap operates on the left-hand side of the Paschen curve, while the control gap operates at the minimum of the curve. In this way, it was possible to obtain a high breakdown of the main gap (of the order of 15 kV) and a low breakdown for the control gap (about 500 V). The discharge tube is illustrated in the diagram of Figure 1 and its operating circuit is shown in Figure 2. The tube is filled either with argon or helium at

The tube is filled either with argon or helium at pressures of 0.2 to 0.7 mm Hg and has a diameter of 27 mm and an overall length of 80 mm. It consists of: an anode 1; a cathoda 2; an auxiliary electrode 3 (Figure 1). The auxiliary or control electrode is

separated from the anode by the base electrode or the cathode. The base electrode contains an aperture in its

Card1/3

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S/120/60/000/01/024/051 E192/E382

A Controlled Low-pressure Discharge Tube

centre and a priming discharge passing a current of 10 $\mu \textbf{A}$ is maintained between the auxiliary electrode and the base. The polarity of this discharge is such that the base electrode receives positive ions. Since a positive voltage is applied to the anode, the ions cannot pass through the aperture. A negative control pulse is applied to the auxiliary electrode.. This results in the "reversal" of the auxiliary discharge and leads to the breakdown of the auxiliary gap. The electrons produced in this discharge pass through the aperture and initiate the main discharge between the base electrode and the anode. A number of test tubes based on the above principle were produced. These were tested at voltages ranging from 12 - 14 kV. It was found that the tubes can operate at voltages ranging from 2 - 10 kV. The tubes can be triggered by a pulse having an amplitude of 2 kV with a front slope of 5 kV/µs. The energy necessary for the ignition of the main gap is about The lag between the application of the

Card2/3

69084 S/120/60/000/01/024/051 E192/E382

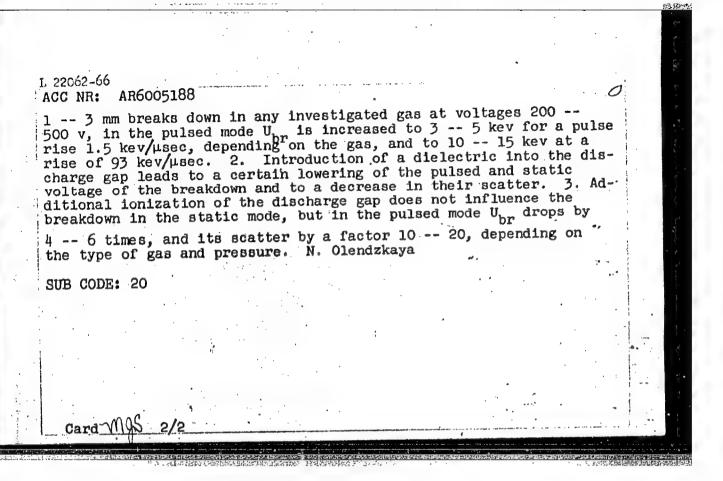
A Controlled Low-pressure Discharge Tube

control pulse and the appearance of the main discharge is about 0.2 to 0.04 µs; at lower anode voltages the time lag can increase to 0.1 µs. The tubes can be employed to switch currents of up to 5 kÅ. Under these conditions, they are capable of several thousand operations without a serious deterioration. The authors express their thanks to L.G. Sinel'nikova for taking part in the preparation and the measurement of the tubes. There are 4 figures and 3 Soviet references.

SUBMITTED: January 14, 1959

Card 3/3

L 22062-66 EWT(1) AR6005188 SOURCE CODE: UR/0058/65/000/009/G017/G018 Sinel'nikoya, L. G.; Eyg, L. S. 80 TITLE: Pulsed breakdown of certain diatomic and inert gases in a wide range of pressure variation SOURCE: Ref. zh. Fizika. Abs. 90145 REF. SOURCE: Sb. Proboy dielektrikov i poluprovodnikov. M.-L., Energiya, 1964, 63-69 TOPIC TAGS: dielectric breakdown, diatomic molecule, inert gas, gas discharge, pressure effect, gas ionization TRANSLATION: (The authors investigated the dependence of the static and pulsed breakdown voltage Ubr on the type and pressure of gas (H2, He, N2, O2, Ne, Ar) of a dielectric (mica, ceramic, glass) in a discharge gap, and the artificial ionization of gas by radioactive material. On the basis of the results the following conclusions are drawn. 1. Whereas under static conditions a discharge gap of length Card



S/137/62/000/002/033/14-A006/A101

AUTHORS:

Khonina, O. I., Eygales, M. A.

TITLE:

On the effect of soda and sodium silicate on flotation of zircon

with oleic acid

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 2, 1962, 9-10, abstract

2066 ("Tr. Vses. n.-i, in-ta mineral*n. syr*ya" 1961, no. 6,

148-157)

TEXT: Pure zircon crystals were used as investigation material. They were crushed to a size of -0.15 to +0.053 mm and -0.053 to +0.02 mm. Oleic acid was used as a collector for zircon flotation. High (90.4 - 95.4%) extraction of zircon was reached at very considerable consumption of oleic acid (950 - 1,500 g/t). The authors studied the speed of zircon particle adhesion to an air bubble in the presence of oleic acid. Considerable concentrations of oleic acid are required for hydrophobization of the surface of zircon that was not activated during the crushing process. The authors studied the effect of two regulators widely used in practice, i. e. soda and commercial Na silicate, on flotation and kinetics of zircon particle adhesion to an air bubble. It is shown that the

Card 1/2

On the effect of soda ...

9/137/62/000/002/033/144 A006/A101

depressing effect of soda and sodium silicate is connected mainly with the reversible sorption of dissociation products and hydrolysis of regulators on the free surface microsections. Hydrophilization of the surface entails a higher stability of the hydrate layer and inhibits the adhesion of mineral particles to air bubbles. It is supposed that these regulators do not affect sorption of the collector by the zircon surface. At high concentrations both the regulators affect foam formation. Soda reduces foam formation up to its complete disappearance; sodium silicate changes the nature of foam by reducing mineralization of air bubbles and their strength. The authors established the different intensity of zircon depressing with soda and sodium silicate, depending on the particle size. There are 9 references.

A. Shmeleva

[Abstracter's note: Complete translation]

Card 2/2

Quality of literature produced by scientific and engineering regreat societies. Vest. TSNII MPS 17 no.6:59-61 S *58.

(Railroads--Societies, etc.) (MIRA 11:11)

POVOROZHENKO, Vladimir Vasil'yevich, prof., doktor tekhn.nauk;

KOSTENKO, Ivan Georgiyevich, kand.tekhn.nauk; MAKHOTKIN,

Hikolay Aleksandrovich, inzh.; RUMYANTSEV, Sergey Mikhaylovich, inzh.; PARAKHONSKIY, Boris Mikhaylovich, kand.ekon.

nauk; SOLOV'YEV, Ivan Fomich, kand.tekhn.nauk; BAKAYEV,

V.G., doktor tekhn.nauk, red.; CHERNOMORDIK, G.I., doktor

tekhn.nauk, nauchnyy red.; IRKHIN, A.P., kand.tekhn.nauk,

nauchnyy red.; KUDRYAVTSEV, A.S., doktor ekon.nauk, nauchnyy

red.; GLADTSINOV, B.W., kand.tekhn.nauk, nauchnyy red.;

EYGKI, I.Yu., red.; LAVRENOVA, N.B., tekhn.red.

[Transportation in the U.S.S.R.] Transport SSSR. Pod obshchei red. V.G.Bakaeva. Moskva, Izd-vo "Morskoi transport." 1960. 536 p. (MIRA 13:7)

IRBEDEV, Mikhail Nikolayevich, prof.; SHADRIN, Nikolay Aleksandrovich, prof.; KRYUKOV, Georgiy Nikolayevich, dotsent; MOLLOT, Aleksandr Georgiyevich, dotsent; PETRUKOVICH, A.A., inzh.; PAL'CHUN, P.S., inzh., retsenzent; SOKOLOV, F.G., inzh., retsenzent; EYGEL', I.Yu., inzh., red.; BOBROVA, Ye.N., tekhn. red.

[Railroad surveying and construction] Izyskaniia i postroika zheleznykh dorog. By M.N.Lebedev i dr. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshcheniia. Pt.2. [Railroad construction] Postroika zheleznykh dorog. 1961. 319 p. (MIRA 14:8) (Railroads—Construction)

BESHKETO, Vsevolod Kupriyanovich, kand. tekhm. nauk; GRIDASOV,
Nikolay Ardreyevich, inzh.; KUZ'MIN, Aleksandr Nikolayevich,
inzh.; PAVLOV, Aleksandr Anatol'yevich, inzh.; EYGEL', I.Yu.,
inzh., red.; MAKUNI, Ye.V., tekhm. red.

[Specialized unloading points] Spetsializirovamnye bazy vygruzki. [By] V.K.Beshketo i dr. Moskva, Vses. izdatel'skopoligr. obmedinenie M-va putei soobshcheniia, 1962. 78 p.

(MIRA 15:3)

AID P - 3540

ilore, 1.74.

Subject

: USSR/Electricity

Card 1/1

Pub. 29 - 4/27

Author

: Eygel', L. Ya., Eng.

Title

: Reduction of delay in the reading of electric gas

analyzers

Periodical

: Energetik, 11, 8-9, N 1955

Abstract

: The author finds that the delay in readings of gas analyzers of modern high capacity boilers sometimes is as much as 20 to 25 minutes. To improve this situation, certain electric power stations introduce on the boiler shunts consisting of 3" in diameter tubes to reduce the delay in the flow of gases. The author describes in detail the installation of the

new type of analyzers. Two drawings.

Institution

None

Submitted

No date

KONOVALOV, Vitaliy Sergeyevich, inzhener; DIUGACH, Bortz Abramovich, kandidat tekhnicheskikh nauk; GRIMEVICE, G.P., professor, retsensent; EYGEL', I.The, inzhener, redaktor; UVAROVA, A.F., tekhnicheskiy-redaktor

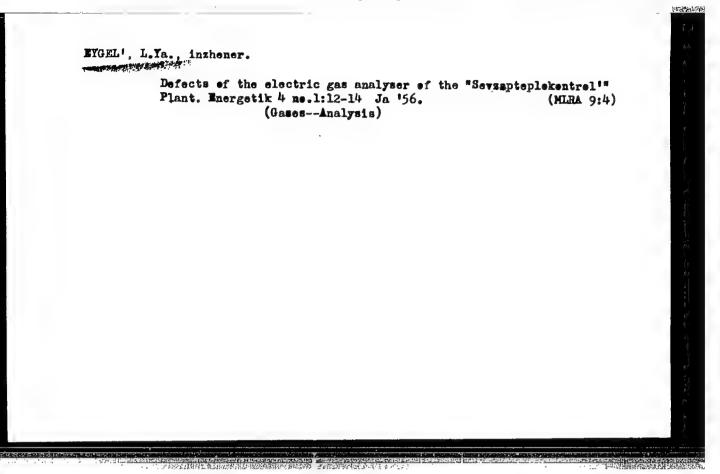
[Work practices of heavy machinery incustry railroad shops] Coyt raboty shelesnodoroshnykh tsekhov savodov tiashelogo mashinostroeniia.

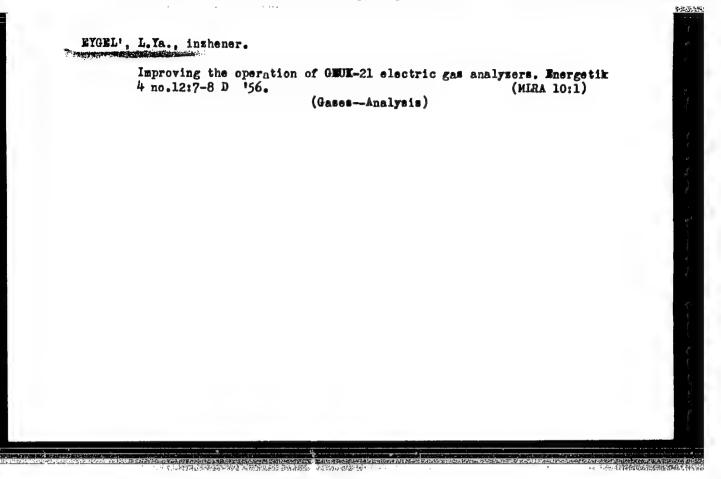
Moskva, Gos. nauchno-tekhn, isd-vo mashinostroit. lit-ry, 1956, 129 p.

(Railroads)

(MERA 9:12)

(Machinery industry)





"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231

91-58-5-30/35 AUTHOR: Eygel', L.Ya.

On the Work of the Consumption deters DP-612 (O rabote ra-TITLE:

skhodomerov DP-612)

Energetik, 1958, Nr 5, p 36 (USSR) PERIODICAL:

The indications of the water-meter and the steam-meter in ABSTRACT:

boilers often do not correspond. At high load, the steam pressure in front of the diaphragm is lowered, and the meter of steam consumption shows higher values than at a lower load. The indications must be multiplied with cer-

tain factors, depending on the parameters of the boiler.

Library of Congress AVAILABLE:

1. Steam - Gages 2. Water - Gages Card 1/1

EYGEL, L. Ya.

AUTHORS: Anan'in A.V., Kormer, I.E. and Eygel', L.1a., Engineers

TITLE: Measurement of the Surface Temperature of Thermal Insulation on lipes by Means of Resistance Thermometers

(Izmereniye temperatury poverkhnostey teploizolyatsii truboprovodov pri pomoshchi termometrov soprotivleniya)

PERIODICAL: Teploenergetika, 1958, No 2, pp 93-94 (USSR)

ABSTRACT: Heat Losses in power stations are higher than they should be mainly because systematic checking of thermal insulation is made difficult by the absence of convenient and accurate methods of measurement. In power stations, the practicable method of assessing thermal insulation is based on measurements of its surface temperature and for many years surface thermocouples have been used for this purpose. The temperature distribution round the surface of the insulation on a horizontal steam pipe is shown in Fig.1. This indicates that measurements made at a single point cannot represent the true mean temperature. The temperature distribution is especially distorted when the insulation is defective. Since portable instruments of high accuracy have to be used with surface thermocouples, alternative use of resistance thermometers has been found advantageous.

Cardl/2 The main component of the equipment developed by ORGRES, which

96-58-2-21/23

Measurement of the Surface Temperature of Thermal Insulation on Pipes by Means of Resistance Thermometers

is illustrated diagrammatically in Fig.2, is a small, exposed resistance thermometer. Photographs of the resistance thermometer and portable measuring bridge are shown in Fig. 3. The heat capacity of the resistance thermometer causes some error when it is applied to insulation. As indicated in Fig. 4, heat flowing through the insulation cannot compensate for that lost to the thermometer. This error was estimated by comparison with a known instrument. The magnitude of the correction depends on the difference between the temperature measured by the instrument and the ambient air temperature and is determined from the graph given in Fig. 5. Experience shows that by increasing the dimensions of the measuring element, the necessary correction is reduced and a single measurement may be made to obtain the mean temperature. Therefore, resistance thermometers have been made in the form of a tape, as shown in Fig.6. This is clipped around the insulated pipe. A comparison between average temperatures obtained in this way and by conventional methods is tabulated and good agreement is claimed. There are 6 figures, 1 table and 2 Russian references.

card2/2

1. Temperatures-Measurement . 2. Pipes-Insulation

25(6)

SOV/91-59-5-22/27

AUTHOR:

Eygel'. L.Ya.

TITLE:

On Making Thermal Measurements (O proizvodstve tep-

lovykh izmereniy)

PERIODICAL:

Energetik, 1959, Nr 5, p 37 (USSR)

ABSTRACT:

The article contains answers to the four questions asked by Shushpanov, from Serdolsk, Penzenskaya oblast, such as: how to use a non-gran contained in the book by V.P. Preobrazhenskiy "Thermotechnical Measurings and Instruments", published in 1946; what influence have changes of temperature upon the precision of band automatic scales for coal; how can one purchase the laboratory heat-measuring instruments; and how the differential manometer DP-278 installed for a lowered water level can be checked?

Card 1/1

SOV/91-59-6-29/33

AUTHOR:

Eygel', L.Ya.

TTTLE:

(

On Measures for Preventing Damage to Manometers

PERIODICAL:

Energetik, 1959, Nr 6, p 38 (USSR)

ABSTRACT:

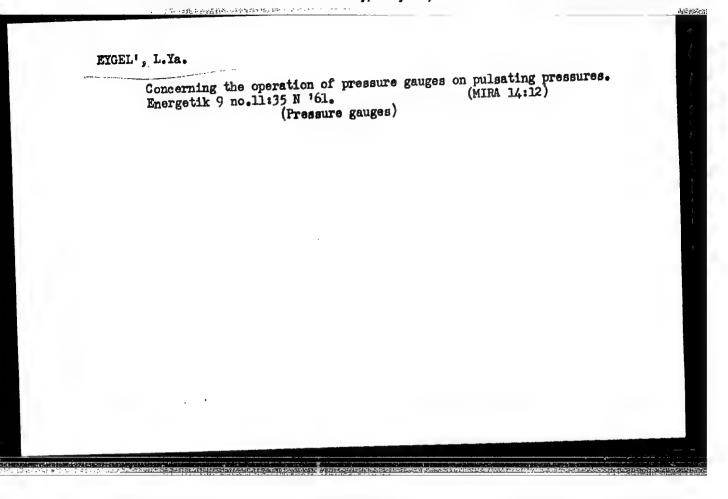
This is a reply to reader V.I. Yeremeyev from Novosibirsk. If the manometer experiences changes in pulsating pressure, it should be placed not on the machine itself, but rather on a vibration-free place. The impulse line to the manometer should be provided with a volume (a piece of large pipe) and a throttle (0.5-1 mm in diameter). The manometer scale must have at least a 50% margin, to enable the manometer to

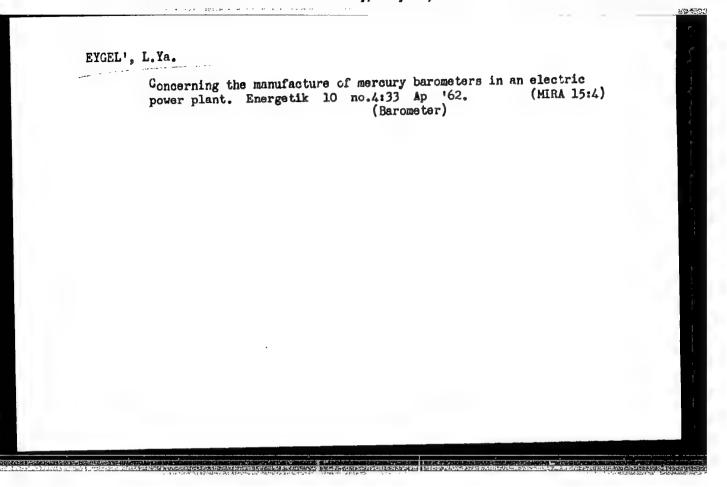
use a stronger spring.

Card 1/1

Portable differential mercury manometer with steel pipes.
Energetik 8 no.9;9-10 S '60. (MIRA 14:9)

(Manometer)





EYGEL', L.Ya.

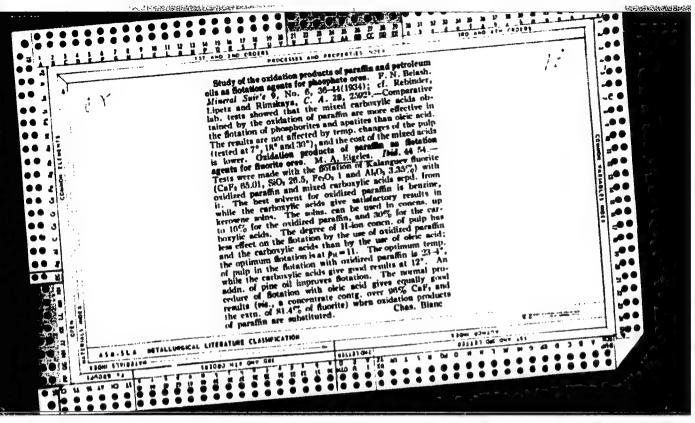
Devices for analyzing the chemical composition of the flue gases of boiler furnaces. Prom. energ. 17 no.11:60 N '62. (MIRA 15:12) (Furnaces)

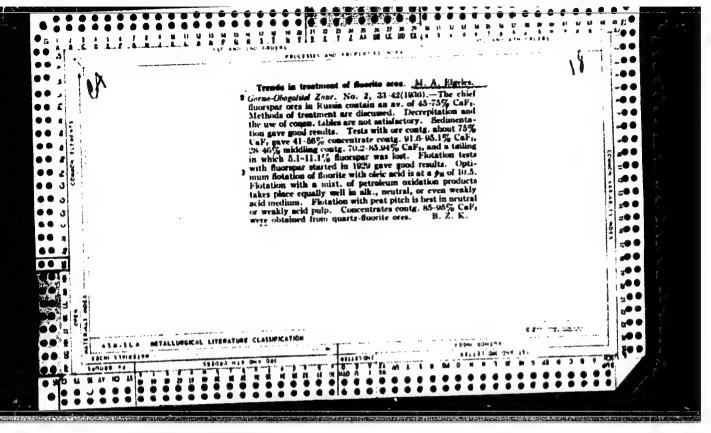
ZABOLOTNAYA, N.P.; NOVIKOVA, M.I.; SHATSKAYA, V.T.; GIMZBURG, A.I., glavnyy red.; POLYAKOV, M.V., zam. glavnogo red.; APEL'TSIN, F.R., red.; GRIGOR'YEV, V.M., red.; RODIONOV G.G., red.; TROKHACHEV, P.A., red.; FAGUTOV, V.P., red.; KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHMANENKOV, I.V., red.; SHCHERBINA, V.V., red.; KYGELES, M.A., red.; KOLOSHINA, T.V., red.; 12d-va; BYKOVA, V.V., tekhn. red.

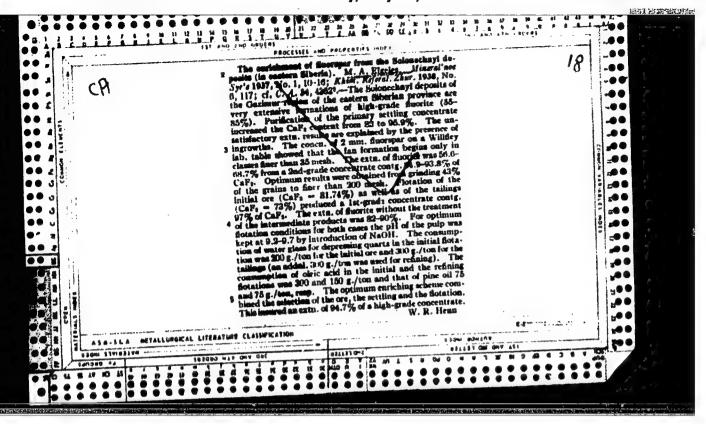
[Tungsten-molybdenum-tin-beryllium deposits and their formation]. Vol'fram-molibden-olovo-berillievye mestorozhdeniia i usloviia ikh obrazovaniia. Moskva, Gosgeoltekhizdat, 1962. 94 p. (Geologiia mestorozhdenii redkikh elementov, no.18).

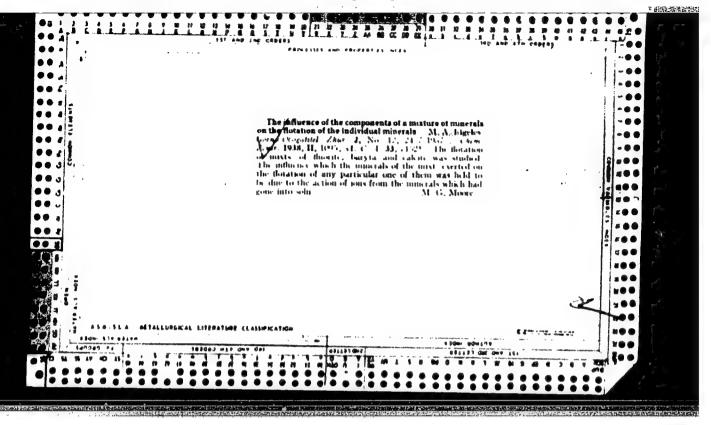
(MIRA 16:4)

(Metals, Rare and minor)



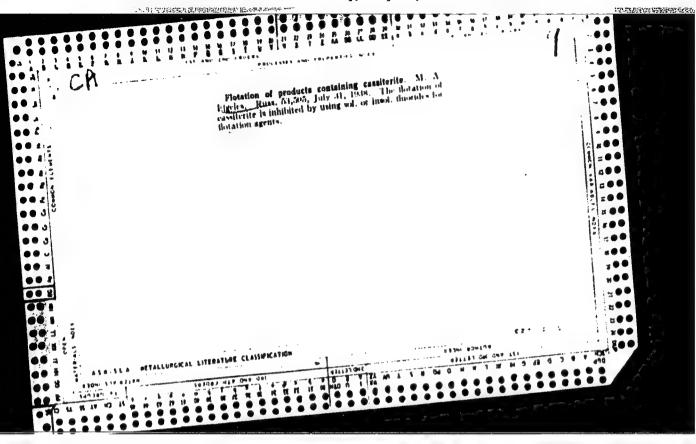


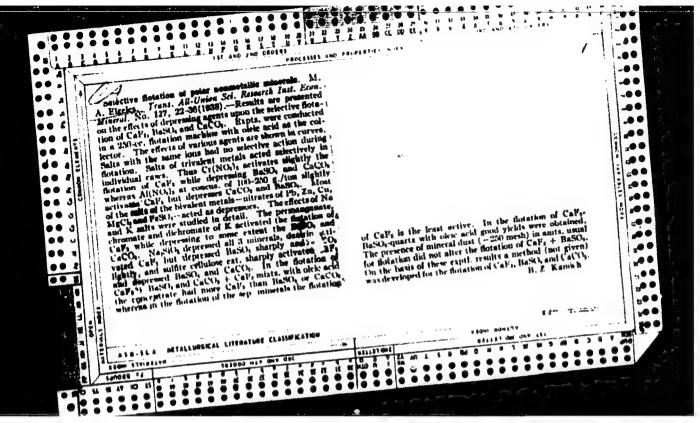


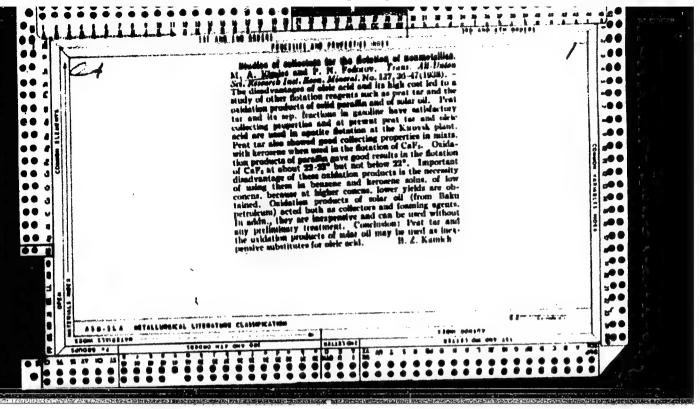


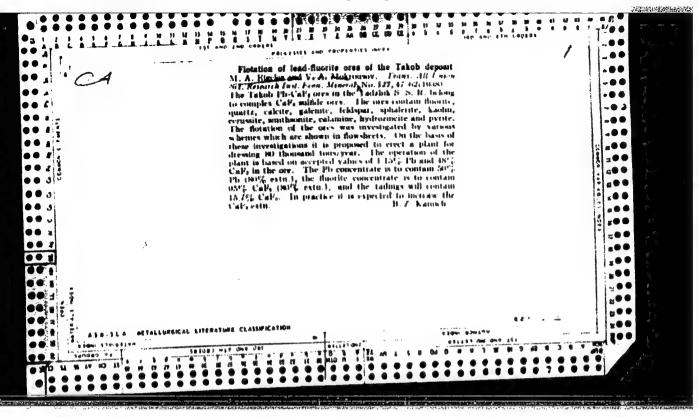
"APPROVED FOR RELEASE: Thursday, July 27, 2000

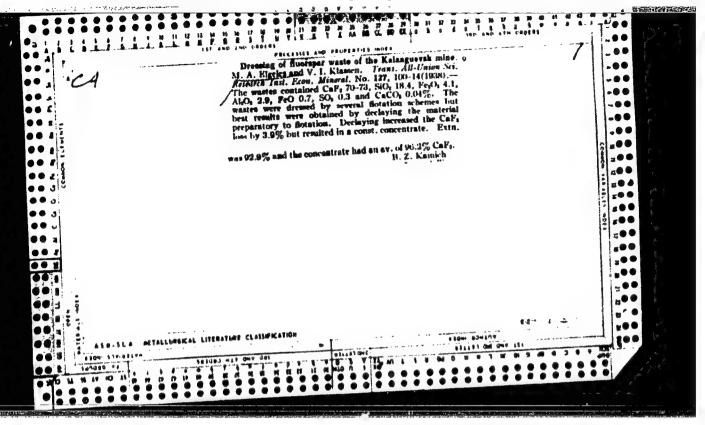
CIA-RDP86-00513R00041231

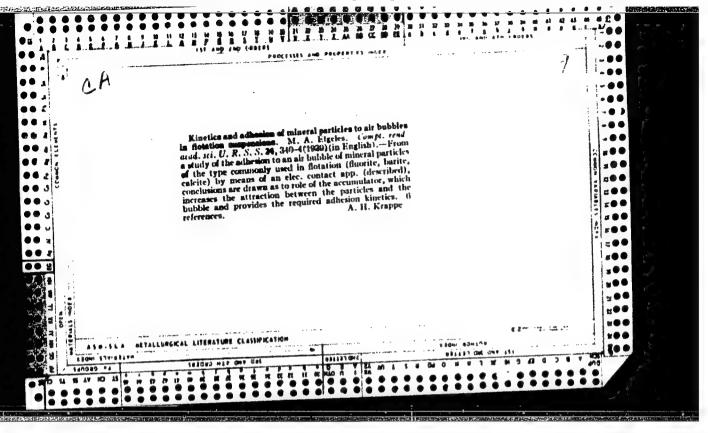


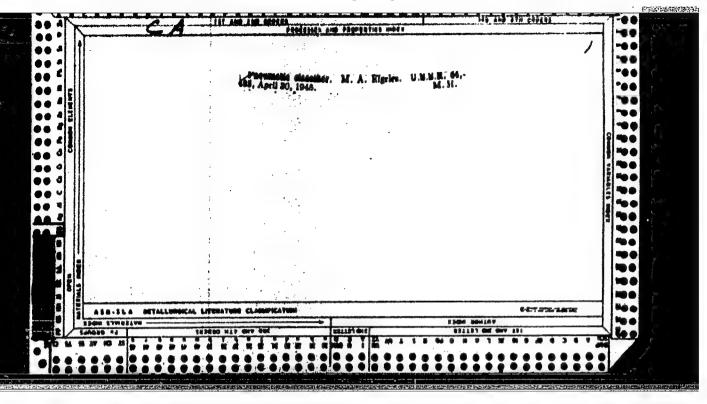


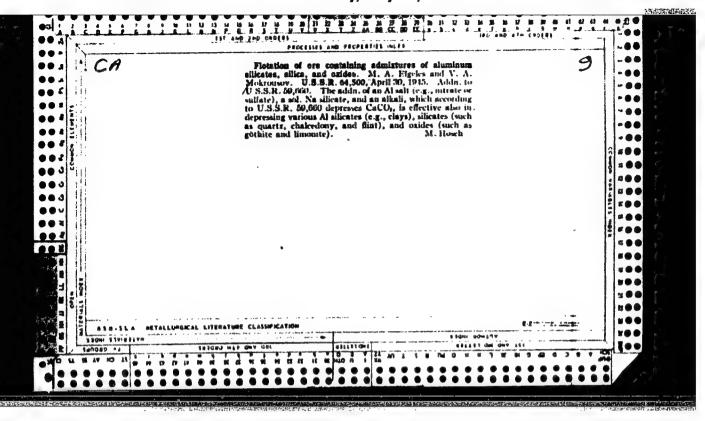


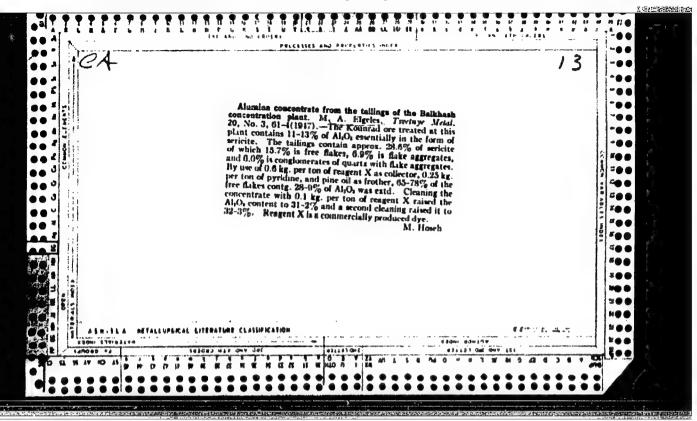








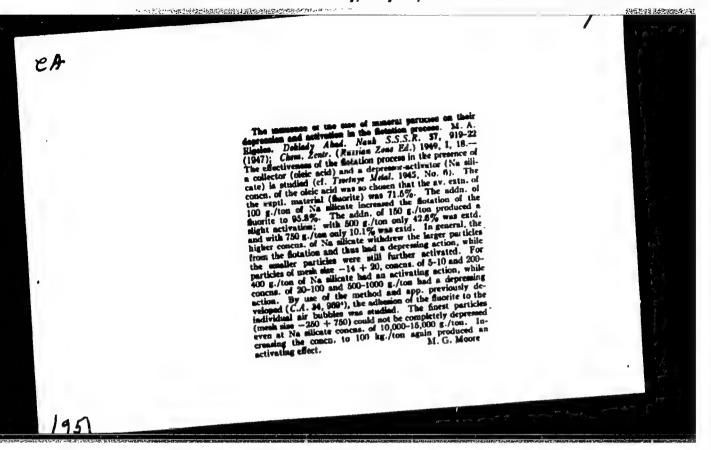




FYCHLES, M.A.; LEWIUSH, I.T.

Field flotation testing of ores. Sow.geol. no.21:73-86 '47.
(MIRA 8:8)

(Ores.—Sampling and estimation) (Flotation)



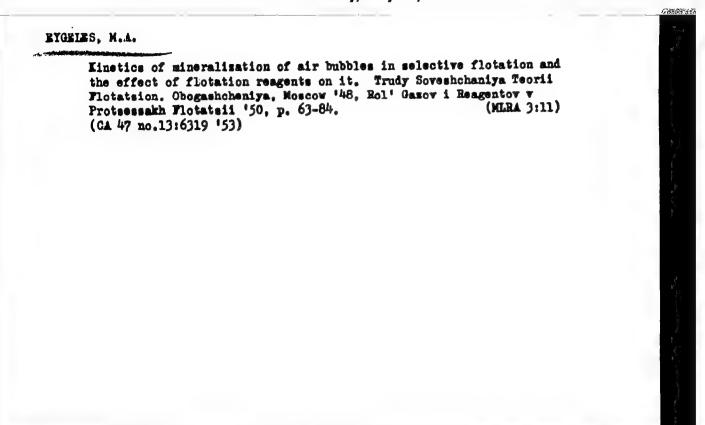
EYGELIS, M. A.

USSR/Flotation
Mineral Industries

"Mechanism of Effect on a Flotation of Variable Concentration of Hydrogen Ions in Pulp," M. A. Eygeles,
All-Union Institute of Mineral Raw Materials, 5 pp

"Gornyy Zhurnal" Vol CIXI, No 6

Discusses the effect of pH on a flotation of cleate; the attachment of sodium cleate on the surface of minerals; and the effect of variable concentration of H and CH or kinetic attachment of mineral particles to air bubbles, etc. Graphs and tables.



EYGELES, M.A.

PHASE I

TREASURE ISLAND BIBLIOGRAPHIC REPORT

AID 165 - I

BOOK

Call No.: AF546504

Author: EYGELES, M. A., Professor, Doctor of Technical Sciences

Full Title: CONCENTRATION OF NONMETALLIC USEFUL ORES

Transliterated Title: Obogashcheniye nemetallicheskikh poleznykh iskopayemykh

Publishing Data

Originating Agency: None

Publishing House: State Publishing House of Literature on Construction Materials

Date: 1952 No. pp.: 563 No. copies: 3,000

Editorial Staff

Editor: Glezarova, I.

Tech. Ed.: None

Editor-in-Chief (Scientific): Margolin, I.

Appraiser: None

Others: Some chapters of the book were written by I. Z. Margolin, Master of

Techn. Sciences, and by I. D. Finkel'shteyn, Master of Technical Science;

Text Data

Coverage:

This is a textbook in preparing non-metallic ores, that is, the concentration of ore by mechanical removal of some of the gangue (crushing, grinding, flotation). The book gives the general principles of dressing of ores and of the machinery used in the USSR. It discusses specifically the preparation of non-metallic ores like asbestos, graphite, talc, and kaolin, clays for ceramics and sands for glass, production of cement and of other materials used in construction (chalk, gravel, stone, sand). Charts, tables.

1/2

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231

Obogashcheniye nemetallicheskikh poleznykh iskopayemykh

AID 165 - I

The book outlines the subject in a very general way, and does not give any new methods or indicate clearly the machinery produced in the USSR. It therefore does not appear to be of special interest. The book was approved by the School Board of the Ministry of the

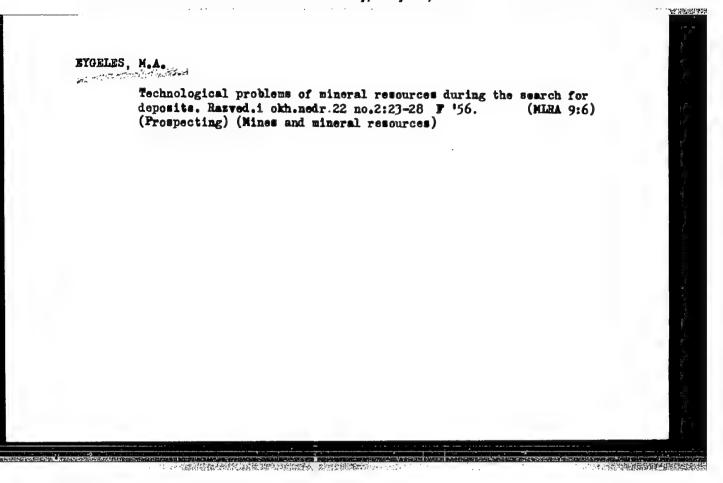
Building Materials Industry as a textbook for technical colleges. Facilities: None

No. of Russian and Slavic References: 18 (from 1929 to 1950). No foreign references given.

Available: A.I.D., Library of Congress.

Purpose:

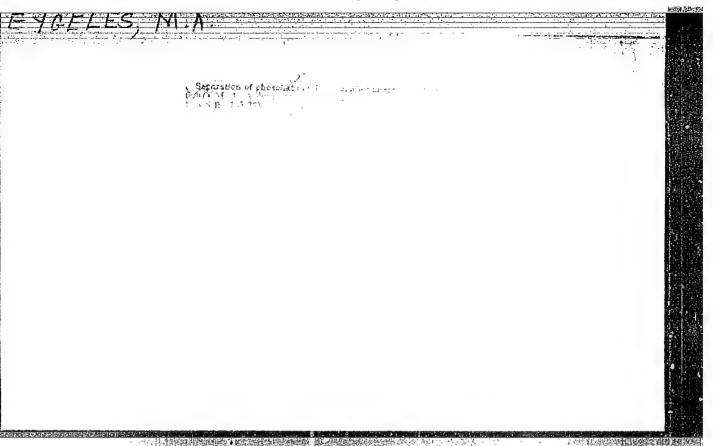
2/2

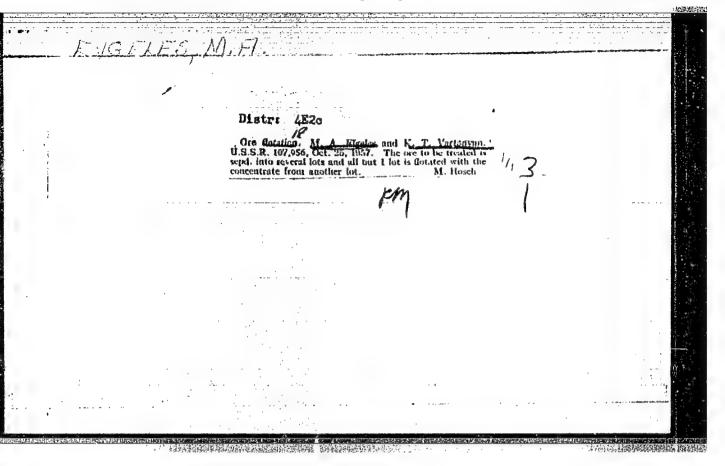


EYGELES, M. A.

"Selective Flotation of Non-Sulphide Minerals" was a paper submitted at International Congress on Mineral Dressing, 18-21 Sep 57, Stockholm.

C-3,800,154.





"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231

Ey. Ge/es, 11.A.

AUTHORS:

Eygeles, M. A., Khonina, O. I.,

64-8-6/19

Volova, M. L.

TITLE:

Selective Flotation of the Carbonate-Phosphorite Ore (Selektivnaya flotatsiya karbonatno-fosforitnoy rudy).

PERIODICAL:

Khimicheskaya Promyshlennost', 1957, Nr 8, pp. 25-28 (USSR)

ABSTRACT:

The collective effect of the alkyl sulphate in the flotation of calcite, dolomite, and phosphorite was investigated here. At present some types of the sodium-alkyl sulphate are produced in the USSR as solutions for the textile industry. One of them was used here. It is produced from the fat of marine animals and has the general formula R-O-SO₃Na. (R contains 12 up to 20 carbon atoms). The

obtained data show that the slightly alkaline medium is the best for the calcite flotation. In the dolomite flotation the p_H-value zone of the medium is much breader and in the case of an introduction of great quantities of oxalic acid occurs an intensive flotation in the dolomite. In consequence of a much slower solution of the dolomite in the acid medium (than in calcite) an acid medium can be maintained in the flotation of the dolomite. In the flotation of calcite it was

Card 1/4

Selective Flotation of the Carbonate-Phosphorite Ore

64-8-6/19

not possible to obtain a p_H -value of the pulp (dross) below 6. The comparison of the results in the flotation of the calcite and limestone shows that in the flotation by means of the alkyl sulphate the output of the calcite (according to the amount) is analogous to the output of the minerals by other collectors, whereas in the flotation of limestone the essential quantity of the great particles remain in the chamber product. It is assumed that this is connected not only with the more difficult carrying out of the flotation of the fine-crystalline limestone, but also with the natural impurity of it and with the considerably changing surface properties. The screen analysis of the flotation products shows that the essential content of carbonates in the refuse was obtained at the cost of the great particles of the fine-crystalline limestone. A reduction of the grain size of the flotation material up to -74 m 6 arantees a calcite output up to 90% in the case of a consumption of 750 g sodium alkyl sulphate per 1 ton of ore. Simultaneously an important part of the phosphate (circa 60%) is produced. In order to increase the selectivity in the flotation of the ores with alkyl sulphate the effect

Card 2/4

Selective Flotation of the Carbonate-Phosphorite Ore

64-8-6/19

of the different flotation regulator was investigated here, of the fundamental ones as well as in the purification operation. The investigation of the most used regulator of sodium silicate, showed that in the introduction of the same into the pulp (dross) no considerable improvement of the selectivity occurs in the fundamental flotation. Great sodium silicate quantities exercise a depression on the flotation of the carbonates and phosphates. The introduction of the sodium silicate into purified flotations garantee on the other hand good separation indices (in the separation of the carbonates from the phosphates). Comprisingly it is stated that the application of the sodium alkyl phosphate offers the possibility of obtaining from an ore with 16,8 % Poos and 20 % CO. a phosphate concentrate with 35% P205 with an output of 92%2 of the initial product for the flotation. The most essential part of the limestone (85,4%) yields waste products. There are 4 figures, 6 tables, and 9 references, 7 of which are Slavic.

Card 3/4

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041231

Selective Flotation of the Carbonate-Phosphorite Ore

64-8-6/19

ASSOCIATION: All-Union Institute of Mineral Raw Materials

(Vsesoyuznyy institut mineralinogo syriya).

AVAILABLE:

Library of Congress

Card 4/4

APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00041231(

EYOKLES, M.A.; KHONINA, O.I.; VOLOVA, M.L.

Selective flotation of carbonate - phosphorite ore. Khim. prom.
no.8:473-476 D '57.

1. Vsesoyusnyy institut mineral'nogo syr'ya.
(Carbonates) (Phosphorites) (Flotation)

(MIRA 11:4)

SHMANENKOV, I.V.: TITOV, V.I.: RUSANOV, A.K.: ROZHKOVA, Ye.V.: EYGELES, M.A.: ZVEREV, L.V.

All-Union conference on laboratory methods of studying ores and

minerals of rare and trace elements. Sov. geol. no.61:158-166 157.

1. Vsesoyuznyy institut mineral'nogo syr'ya.
(Mineralogy--Congresses)

PROTECTION (A.I. Grekulova), (A.I. J. Islov)

"FICTATION OF FITCH-SIRDE FEAR SYNTHESIC MINTURES AND CRES"

Toy N. A. Eygeles, A. L. Grekulova, A. E. Shishov

Report presented at 2nd UN Atoms-for-Feace Conference, Sereva, 9-13 Sept 1958

1. YCCO F S DO A.

EYGELES, M. A., Professor (VIMS)

"Errors in N. A. Yanis' work"

report presented at the 4th Scientific and Technical Session of the Nekhanobr Inst, Leningred, 15-18 July 1958

M.A. EYGELES and (I. T. Levyush)

"FIOTABILITY OF BERYL" by M. A. Eygeles, I. T. Levyush

Report presented at 2nd UM Atoms-for-Feace Conference, Scheva, 9-13 cept 1958

1. Y(-1 1.1 S 197./)

MITROFANOV, Spiridon Ivanovich,; EYGELES, M.A., doktor tekhn. nauk, retsenzent,;
STREL'TSIN, B.S., kand.tekhn.nauk, retsenzent; MATVEYENKO, M.V., inzh.,
retsenzent,; TROITSKIY, A.V., red.; YEZDOKOVA, M.L., red. izd-va,;
VATNSTEYN, Ye. B., tekhn. red.

[Selective flotation] Selektivnais flotatsiis; teoriis i praktiks.
Moskva, Cos. nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi
metallurgii, 1958. 726 p.

(Flotation)

GINZBURG, A.I.; MECHAYEVA, Ye.A.; LAVRENNY, Yu.B.; POZHARITSKAYA, L.K.;

MALYSHEV, I.I., red.; RODIONOV, G.G., red.; FAGUTOV, F.P., red.;

KHRUSHCHOV, N.A., red.; CHERNOSVITOV, Yu.L., red.; SHRAMENKOV, I.V.,

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[Bare metal carbonatites] Redkometal nye karbonatity. Moskva,

Gos.nauchno-tekhn.ixd-vo lit-ry po geol. i okhr.nedr, 1958.

126 p. (Geologiia mestorozhdenii redkikh elementov, no.1)

(MIRA 12:2)

(Carbonates (Geology))

EYOELES, M.A.; MASH'YARDVA, A.V.

Rate and selectivity of ilmenite fletation. Obeg. rud. 3 no.3:8-13
'58. (MIRA 12:1)

(Fletation) (Ilmenite)

AUTHORS

Eygeles, M.A. Professor

136-58-3-3/21

TITLE:

Influence of Regulators on the Reaction of Collectors with the surface of minerals (O vliyanii regulyatorov na vzaimodeystviye

sobirateley s poverkhnost'yu mineralov)

PERIODICAL:

Tavetnyye Metally, 1958, Nr. 3. pp. 12 - 19 (USSR)

ABSTRACT:

In this article experimental data are presented relevant to the question of the possibility of the thermodynamical study of depression reactions. The author's investigations employed sodium oxalate and sodium tridecylate potassium chronate and dichromate as depressors; marked with radioactive C14 and lauric and olcic acids as the collector and the experiments were carried out with a laboratory machine. G.F. Boyarshinova, O.G. Simonova and Zaydenberg participated. Flotation curves for fluorite, barite and calcite under various conditions (figs. 1, 3, 4, 6) and curves showing the fixing of the tridecylate on the mineral surface (figs.2, 5) are presented and discussed. It is shown that chemical calculations based on the equilibrium constants of the reactions of fluorite with lauric acid and sodium tridecylate in the presence of sodium-oxalate are misleading and useless for forecasting the action of reagents on fluorite flotation; the same applies to barite and calcite with oleic acid and sodium tridecylate in the presence of potassium chromate and dichromate. Chemical calculations were also found to

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2. A 124 38 No. 62 Ed al 28 Ed al 28

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Influence of regulators on the reaction of collectors with the surface of minerals.

be unsatisfactory for the fixing of sodium tridecylate on fluorite and barite in the presence of sodium oxalate and chromate respectively, and for the fixing of oleic acid on barite and calcite in the presence of chromate. The reasons for unsuitability of the thermodynamic methods developed by various authors for investigating the reaction of minerals with an anionic collector in the presence of an anionic depressor are analysed and conditions for applying the thermodynamic method to the study of collector-depressor reactions are stated. In this article the views of Prof. I.A. Kakovskiy and of S.I. Mitrofanov are challenged. There are 6 figures and 15 references of which 11 are Slavic.

ASSOCIATION: Institute of Mineral Raw Materials (Institut Mineral'nogo Syr'ya)

AVAILABLE: Library of Congress.

3. Calcite. 1. Fluorite-Flotaticn 2. Barium ores-Flotation Flotation 4. Minerals-Separation-Equipment

Card 2/2

AUTHOR:

Eygeles, K.A.

132-58-7-3/13

TITLE:

Requirements for Technological Samples of Beryllium, Spodumene and Tantalite - Columbite Ores (Trebovaniya k tekhnologicheskim probam berillovykh, spodumenovykh i tantalito-kolumbitovykh rud)

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PERIODICAL:

Razvedka i okhrana nedr, 1958, Nr 7, pp 12-17 (USSR)

ABSTRACT:

The selection of samples is the first step in the technological examination of a mineral and represents, in fact, the basis for the evaluation of the deposit. The author advises on the selection of samples from the deposits of rare metal ores (beryllium, spodumenes and tantalite - columbite ores). There can be three kinds of samples: 1) qualitative samples are taken from basic varieties according to the material composition, from basic varieties according to their textural and structural features, and from different ores according to the content of the mineral; 2) standard samples of ores which can be submitted to the same concentration process; 3) sectional samples taken from each consecutive level of exploitation. These samples must meet four requirements: 1) the sample must correspond to the investigated part of the deposit: 2) the sample must correspond to the essential parts of available reserves of the given mineral; 3) the

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